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JC846 U. S. PTO
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re

U.S. Application of: Shinya MATSUDA and Takashi MATSUO

For: ACTUATOR USING A PIEZOELECTRIC ELEMENT

U.S. Serial No. Not yet assigned

Filed: Concurrently

Group Art Unit: To be determined

Examiner: To be determined

Box Patent Application

Assistant Director for Patents
Washington, DC 20231

Dear Sir:

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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the dated indicated above and is addressed to the Assistant Director for Patents, Box Patent Application, Washington, DC 20231.

DERRICK T. GORDON

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Derrick T. Gordon

Signature

DECEMBER 15, 2000

Date of Signature

INFORMATION DISCLOSURE STATEMENT

In compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants wish to bring the following items to the attention of the Examiner. A copy of each item is enclosed for the convenience of the Examiner.

No representation is made, and no representation is intended, that more relevant material does not exist, or that the order of presentation of this material in any way reflects its relative pertinence. The references cited below are not intended to constitute an admission of any kind.

Specifically, this presentation is not an admission that the items listed below are properly citable against the above-identified application.


- (1) Mori et al., U.S. Patent No. 4,613,782, issued September 23, 1986;
- (2) "Development of a Small Actuator with Three Degrees of Rotational Freedom (1st Report) - Motion Analysis of the Drive Unit" by Keisuke Sasae et al., *Journal of Precision Engineering Institution*, Vol. 61, No. 3, pp. 386-390, 1995;
- (3) "Development of a Small Actuator with Three Degrees of Rotational Freedom (2nd Report) - Simulation and Experiment of a Friction Drive" by Keisuke Sasae et al., *Journal of Precision Engineering Institution*, Vol. 61, No. 4, pp. 532-536, 1995;
- (4) "Development of a Small Actuator with Three Degrees of Rotational Freedom (3rd Report) - Design and Experiment of a Spherical Actuator" by Keisuke Sasae et al., *Journal of Precision Engineering Institution*, Vol. 62, No. 4, pp. 599-603, 1996; and
- (5) Section 2, entitled "Explanation of a Driving Principle and Configuration of an Ultrasonic Linear Actuator", by S. Nagatome et al., *Manufacture and Estimation of Thin Ultrasonic Linear Motor*, Collection of

Lecture of Precision Engineering
Institution, p. 544, Spring 1998.

Applicants consider the invention to be distinguishable
over the above-cited documents.

As this Information Disclosure Statement is being filed
concurrently with the filing of the patent application, no fee
is incurred. However, if it should be determined that a fee
is required, please charge any required fee (other than the
issue fee) during the pendency of this application to Deposit
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Respectfully submitted,


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